



(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:
11.02.2015 Bulletin 2015/07

(51) Int Cl.:
H04H 60/27 (2008.01)

(43) Date of publication A2:
05.03.2014 Bulletin 2014/10

(21) Application number: **13004057.9**

(22) Date of filing: **14.08.2013**

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME

(72) Inventors:
• **Chen, Xuemin**
Rancho Santa Fe, CA 92067 (US)
• **Li, Gordon**
San Diego, CA 92127 (US)

(30) Priority: **04.09.2012 US 201213602733**

(74) Representative: **Jehle, Volker Armin**
Bosch Jehle Patentanwaltsgesellschaft mbH
Flüggengstrasse 13
80639 München (DE)

(71) Applicant: **Broadcom Corporation**
Irvine, CA 92617 (US)

(54) **Time-shifting distribution of high definition audio data**

(57) A system may time-shift the distribution high-definition (HD) audio. The system can obtain an audio stream from a specified audio source, transcode the audio stream into an HD audio stream, and store the HD audio stream in a memory. The system may later forward the stored HD audio stream to a destination device, which can be a communication device linked to the system

through a local telephone network or a remote communication device. The system can also store HD audio when a local communication device receives an incoming call request that interrupts a current HD audio distribution process. The system may resume distribution of the HD audio after processing the incoming call request from a point when the distribution was interrupted.

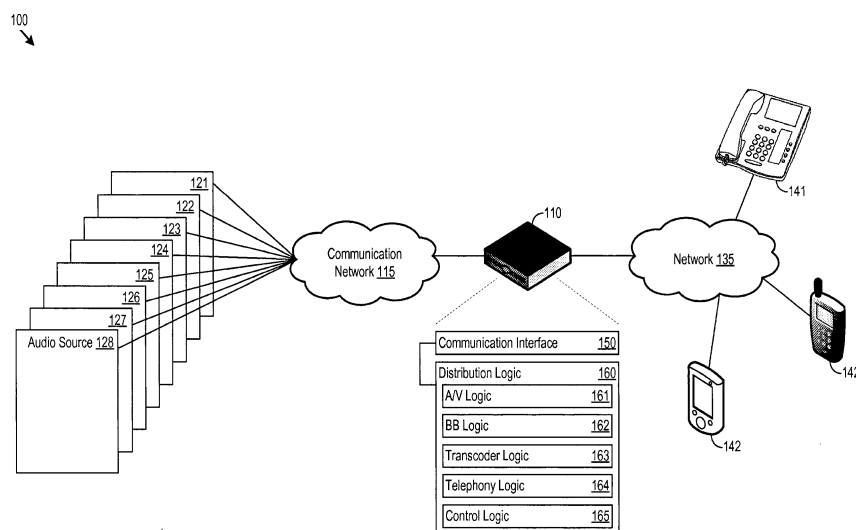


Figure 1



15

20

25

30

35

40

45

50

55

EPO FORM 1503 03.82 (P04C01)



Application Number

EP 13 00 4057

CLAIMS INCURRING FEES

The present European patent application comprised at the time of filing claims for which payment was due.

☐ Only part of the claims have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due and for those claims for which claims fees have been paid, namely claim(s):

☐ No claims fees have been paid within the prescribed time limit. The present European search report has been drawn up for those claims for which no payment was due.

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

☐ All further search fees have been paid within the fixed time limit. The present European search report has been drawn up for all claims.

☐ As all searchable claims could be searched without effort justifying an additional fee, the Search Division did not invite payment of any additional fee.

☐ Only part of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the inventions in respect of which search fees have been paid, namely claims:

☒ None of the further search fees have been paid within the fixed time limit. The present European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims, namely claims:

1-8

☐ The present supplementary European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims (Rule 164 (1) EPC).



**LACK OF UNITY OF INVENTION
SHEET B**

Application Number
EP 13 00 4057

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-8

No special technical features over D1.

2. claims: 9-14

Recording of data when a communication device receives an incoming call.

3. claim: 15

Selecting ringback audio when an incoming call is received

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 13 00 4057

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on

The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

02-09-2014

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0228063 A2	04-04-2002	AU 9012801 A EP 1323284 A2 WO 0228063 A2	08-04-2002 02-07-2003 04-04-2002

EPO FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82